Providing safety and stability, even in an explosive environment

**Intrinsically Safe Explosion-Proof MB Tension Sensors**

**Models**
- MB06□S
- MB12□S
- MB26□S
- MB34□S

**Features**
- Intrinsically safe explosion-proof design (can be installed in hazardous locations where there is a risk of steam of flammable or explosive gas)
- CE mark (EU directive) certified
- MB tension sensors offer performance and reliability
- Can be used over a wide range of tensions, from low to high
- A wide angle of resultant tension force makes these sensors easy to install
- MB tension sensors are strain-gauge types with high sensitivity and good responsiveness

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>MB06BS</th>
<th>MB06AS</th>
<th>MB12BS</th>
<th>MB12AS</th>
<th>MB26BS</th>
<th>MB26AS</th>
<th>MB34BS</th>
<th>MB34AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated tension (N)</td>
<td>100</td>
<td>200</td>
<td>100</td>
<td>200</td>
<td>500</td>
<td>1000</td>
<td>3000</td>
<td>5000</td>
</tr>
<tr>
<td>Roller displacement (μm/N)</td>
<td>1.5</td>
<td>2.0</td>
<td>2.80</td>
<td>1.38</td>
<td>0.47</td>
<td>0.22</td>
<td>0.096</td>
<td>0.057</td>
</tr>
<tr>
<td>Allowable roller weight (kg)</td>
<td>0.10</td>
<td>0.20</td>
<td>0.10</td>
<td>0.20</td>
<td>0.50</td>
<td>1.00</td>
<td>3.00</td>
<td>3.50</td>
</tr>
<tr>
<td>Mass (kg)</td>
<td>0.8</td>
<td>1.5</td>
<td>1.80</td>
<td>0.47</td>
<td>0.22</td>
<td>0.096</td>
<td>0.057</td>
<td></td>
</tr>
<tr>
<td>Tension force direction</td>
<td>Detection in the forward/reverse directions possible</td>
<td>Only detection in the forward direction is possible. Detection in the reverse direction is not possible</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ambient operating temperature:** -10 to +50°C

NIRECO CORPORATION
Hachioji Office
2851-4 I-kanawa machi, Hachioji, Tokyo, 192-8532, Japan
Website: http://www.nireco.com  E-mail: info-epc@nireco.co.jp

**Zener barrier box**
- For dual-sided detection
- MB06□S / MB12□S / MB26□S / MB34□S

**Dwg. No.:** RK0001110-EA

**Wiring diagram**

**External dimensions**

*Note: Please refer to the catalog for detailed dimensions and specifications.*